

Geologist I

The Hawaii Commission on Water Resource Management, administratively attached to the Department of Land and Natural Resources, is currently seeking a qualified individual to serve as a geologist in the Stream Protection and Management (SPAM) Branch. The individual must be able to communicate and work well with others. They must also have at least a bachelor's degree from an accredited college or university in either geology or hydrogeology, or a related major in a field of geosciences; a minimum of four years work experience in hydrological or geological sciences with emphasis on ground-water hydrology, surface water hydrology, and volcanic geology.

The SPAM Branch administers the statewide instream use protection program, establishes and regulates instream flow standards, and monitors and regulates surface water usage. This Branch also implements a permit system for the alteration of stream channels and the construction, alteration, and abandonment of stream diversion works.

This position is located in the Instream Use Protection Section of the Branch and is responsible for conducting surface-water resource assessment studies, developing stream management plans, assisting in the development and implementation of procedures and guidelines for adopting permanent and interim instream flow standards, recommending stream protection policies and permanent and interim instream flow standards, and enforcing established instream flow standards in coordination with federal, state, and county agencies, as necessary.

Major duties include:

- Collecting and compiling baseline hydraulic and biologic data and conducting baseline research to be used in the development of instream flow standards, including field surveys to identify and document instream and non-instream uses of water, channel conditions, profiles, and cross-sections, and diversion quantities; researches land ownerships, land uses, and water rights.
- Assisting in the development and implementation of procedures and guidelines for adopting and amending permanent and interim instream flow standards.
- Monitoring established instream flow standards to ensure preservation of stream waters to sustain identified significant instream uses.
- Assisting in reviewing applications for Stream Channel Alteration and Stream Diversion Works Permits, determining impacts on established instream flow standards or significant instream values and preparing recommendations on the applications.
- Participating in surface-water investigations in response to requests for determination, complaints, stream channel alterations, stream diversion works, and petitions to amend the instream flow standard.
- Interpreting research data and providing scientific and technical advice on the interaction between surface water and ground water.

- Providing scientific and technical advice and interpretation of the substrata in relation to erosion and natural stream channel attenuation, sedimentary and geomorphological properties of a watershed, and the hydrologic properties of different Hawaiian rock types in terms of permeability and flow.
- Aiding in the development and implementation of numerical and analytical surface-water models to assess streamflow and various other hydrologic parameters.
- Providing other state agencies with geological and hydrological expertise when necessary.

For more information, please contact the Commission on Water Resource Management at (808) 587-0214.